

ARLECDON & FRIZINGTON
URBAN DISTRICT.

Twenty-second
Annual Report

OF
JAMES I. LACE,
MEDICAL OFFICER OF HEALTH,

FOR
1905.

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THIRLMERE HOUSE,

FRIZINGTON,

via Carnforth.

MR. CHAIRMAN AND GENTLEMEN,

I have the honour of submitting to your notice my Twenty-second Annual Report on the Health and Mortality of the Urban District, together with an account of the Sanitary Work during the year 1905.

The estimated population of the District at Midsummer, 1905, was 5,140, which shows a decrease of 60 as compared with the assumed population of 1904. Arlecdon Ward (including Whillimoor) has a population of 1,680, and Frizington 3,460. This shows a decrease in both Wards, viz. : 20 in Arlecdon and 40 in Frizington, or 60 in the whole District.

Your District comprehends the Parish of Arlecdon. It has an area of 5,556 acres, with 1,051 houses, 327 in Arlecdon and 724 in Frizington.

During the twelve months ending December 31st, 1905, there was registered in the whole District 140 births—84 boys and 56 girls ; 46 in Arlecdon and 94 in Frizington. The birth-rate was 27·23 per 1,000 of the population in the entire District.

The total number of deaths recorded in the District at all ages and from all causes during the year numbered 94—44 males and 50 females ; 26 in Arlecdon and 68 in Frizington, which is equivalent to a death-rate of 18·28 per 1,000 per annum, and is 4·01 above the average—14·27 per 1,000 per annum—during the previous ten years. Six deaths, however, were registered in the Union Workhouse, and these being added to those registered in the District bring the total “deaths in or belonging to the District,” as shown in Table V., to 100, which is equivalent to a nett mortality-rate of 19·45 per 1,000 per annum, and is 5·18 above the average of 14·27 per 1,000 per annum for the preceding ten years. This increased death-rate is due principally to the deaths of residents registered in the Union Workhouse and not deaths from diseases thought to be preventable by sanitary measures. The excess of births over deaths, representing the natural increase of the population was 46, being 21 less than the previous year. The Death Rates in the District for the quarterly periods were :—

1st Quarter	...	24·90	...	32 deaths
2nd „	...	16·34	...	21 „
3rd „	...	14·76	...	19 „
4th „	...	17·12	..	22 „

The mortality among children under one year of age (including premature births) numbered 19, being 6 less than that of the previous year. Measured by the proportion of deaths to births registered, the Infantile Mortality in the District was equal to 135 per 1,000. The death-rate of children under five years of age to one hundred deaths at all ages in 1905 was 34·46. The senile deaths numbered 23, or 24·46 per cent. of persons aged 65 and upwards. The number of deaths ascribed to the nine principal Zymotic or preventable diseases during 1905 was eleven—two to Diarrhœa and nine to Measles. This gives a Zymotic mortality-rate of 2·14. Eight of the fatal cases of Measles and one of Diarrhœa occurred in Frizington during the first quarter of the year.

Under the "Infectious Disease (Notification) Act," twenty-one cases were notified during the year. There were eleven cases of Scarlet Fever, nine of Erysipelas, and one of Enteric Fever. Most of the notifications were received during the first quarter of the year. Four cases were removed to Galemire Hospital. Two Scarlet Fever patients were taken from the same house, and a case of Erysipelas, a servant of the Council, was twice admitted to the Isolation Hospital during the early part of the year. The case of Enteric Fever occurred at 101 Main Street in the month of December; no sanitary defects were found in connection with the residence, and it was not thought desirable to have the patient removed to the Hospital.

Measles was prevalent in Arlecdon and Frizington during the early part of the year, and several cases were met with on Whillimoor in summer. This disease is credited with nine deaths, eight in Frizington and one in Arlecdon. The number of deaths from Phthisis during 1905 was six, compared with thirteen in 1904, and Cancer is credited to having contributed five deaths in 1905 against two in 1904. The house accommodation in the District is adequate and suitable for the population, with a sufficiency of open space about them. One new house has been erected during the year 1905.

I may here state what I have often done before, that unlike many towns, you are favoured with an abundant supply of wholesome water from Cogra Valley Reservoir. The water is pure and soft and admirably suited for domestic and drinking purposes, its permanent hardness not exceeding 0.8° Fahr. The plan adopted in the District for sewage removal is the water-carriage system, and the method of its disposal is on the principle of Broad Irrigation. All places over which the Council have supervision have been systematically inspected, and the Council furnished with reports for its monthly meetings. Under the "Sale of Food and Drugs Act," several test raids were made by the County Police, and twelve

samples of different articles were submitted to the County Analyst, viz. : four of milk, two of cheese, two of lard, one of whiskey, one of rum, one of butter, and one of pepper. All were certified genuine with the exception of the rum, which had been reduced 8% below legal limit. Proceedings were taken against the seller, but owing to misdirection as to dilution issued to defendant by the firm from whom the spirit was purchased, the case was dismissed.

I append the Annual Report of your Sanitary Inspector, which gives the particulars of the work done by him during the year.

I am, Gentlemen,

Your obedient servant,

J. I. LACE,

Medical Officer of Health.

THE ANNUAL REPORT
OF THE
MEDICAL OFFICER OF HEALTH
OF
FACTORIES AND WORKSHOPS, FOR THE YEAR 1905.

MR. CHAIRMAN AND GENTLEMEN,

In accordance with my duties of Medical Officer of Health, I beg to submit to you my Annual Report on the administration of the Factory and Workshops Act in the Urban District for the year 1905, and send a copy of the same to the Secretary of State. The Sanitary Inspector and myself have visited and inspected all the Factories and Workshops in the District, and several independent inquiries have been instituted in regard to the sanitation of these places. There are 34 Factories and Workshops in the District; six of the former and twenty-eight of the latter, of which three are occupied by Joiners, two by Blacksmiths, two by Plumbers, three by Cloggers, thirteen by Dressmakers, two by Milliners, and three Bakehouses. The condition on the whole was satisfactory in respect to general cleanliness, air space, and ventilation, with the exception of a retail Bakehouse, which was noted and reported to the Council in August last. The sanitary requirements then pointed out have not yet been completed. The number of visits of inspection made during the year by myself was 36 and by the Sanitary Inspector 50.

I am, Gentlemen,

Your obedient servant,

J. I. LACE,

Medical Officer of Health.

COUNCIL CHAMBERS,

MAIN STREET, FRIZINGTON,

January, 1906.

MR. CHAIRMAN AND GENTLEMEN,

I have pleasure to lay before you Sanitary Inspector's Twenty-second Annual Report, which gives you a summary of the work done under your authority during the year ending December, 1905.

During the year 1905 the existing sewerage mains have not in any case been extended. The carrying mains, distributing mains, and irrigation grounds appear to be working very satisfactorily. Neither has there been any extension made to the existing trunk water mains which also appear to be working admirably and giving every satisfaction.

The improvements which have for some time been carried on at the Storage Reservoir, situated in the Cogra Valley, will in a short time be completed, and when complete will be a decided improvement to the Authority's Waterworks.

Summary showing particulars of work done under the Sanitary Authority, for the year ending December, 1905 :—

Inspections of Dwelling Houses	...	...	1412
„ „ Factories	...	...	11
„ „ Workshops	...	...	56
„ „ Milk Shops, Cow Sheds, and Dairies			43

Notices issued and Nuisances abated	...	80
Final Notices issued and Nuisances abated	...	15
Dwelling Houses Fumigated	... ..	6
Water Services renewed	... ..	29
New Houses erected	... ..	1
Clothiers' Store erected	... ..	1
Bake House erected	... ..	1
Out Kitchens to Dwelling Houses erected	...	3
W. C. erected in connection with Bakehouse	...	1

I am, Gentlemen,

Your obedient servant,

GEO. ASHBRIDGE, A.R.S.I.,

Sanitary Inspector.

Table I.—Births.

The total number of Births, Male and Female, Legitimate and Illegitimate, and Birth-rate per 1,000 of the population of the District, and the percentage of Illegitimate to the total Births.

DISTRICTS.	Estimated Population to the Middle of 1905.	BIRTHS.					Rate per 1,000 Population.	Percentage of Illegitimate.
		Legitimate.		Illegitimate		1905		
		Male.	Female.	Male.	Female.	Total		
						1905.	1905.	
Whillimoor Arlecdon	1,680	31	13	0 0	0 1	1 45	.59	2.17
Frizington	3,460	51	38	3	3	94	1.44	5.31
The Entire District	5,140	82	52	3	3	140	1.94	4.28

*Table II.—Deaths from January 1st to
December 31st, 1905.*

Extent, Population, and Mortality.	Township of Arlecdon and Whillimoor.	Township of Frizington.	The Entire District.
Area in Acres ...	{ 1,906·845 1,569·604	2,079·891	5,556·340
Population, Census 1901 ...	1,632	3,709	5,341
„ estimated to the middle of 1905 ...	1,680	3,460	5,140
Deaths from the nine chief Zymotic Diseases ...	2	9	11
Deaths from other causes ...	24	65	89
Total Deaths for the year ...	26	74	100
Death-rate from the nine chief Zymotic diseases per 1,000	1·19	2·60	2·14
Death-rate from all other causes per 1,000 ...	14·28	18·78	17·31
General Death-rate per 1,000	15·47	21·38	19·45

*Table III.—Deaths from the Nine Chief
Zymotic Diseases.*

Smallpox	0	} = 11
Scarlatina ...	...	...	0
Diphtheria ...	...	...	0
Membranous Croup ...	...	...	0
Typhus Fever ...	...	...	0
Enteric or Typhoid Fever ...	...	...	0
Measles ...	...	...	9
Whooping Cough ...	...	...	0
Diarrhœa	2	

Table IV.—Summary.

	1885	1886	1887	1888	1889	1890	1891	1892	1893	1894	1895	1896	1897	1898	1899	1900	1901	1902	1903	1904	1905
Population ...	5,050	5,050	5,050	5,050	5,600	6,000	5,639	5,400	5,200	5,650	5,750	5,750	5,900	5,900	5,950	5,860	5,341	5,341	5,290	5,200	5,140
Total Births ...	208	194	172	174	192	235	204	213	206	207	195	161	171	144	184	170	176	171	172	148	140
Annual Birth-rate per 1,000 population ...	41.18	38.41	34.05	34.45	34.29	39.16	36.17	39.44	39.61	36.63	33.91	28.00	29.00	24.40	30.92	29.01	32.95	32.01	32.57	28.46	27.23
Total Deaths ...	82	80	82	78	95	112	77	75	91	68	90	72	88	83	82	(103) { 102	66	62	78	81	{ 94 100
Annual Mortality per 1,000 population ...	16.23	15.84	16.23	15.44	16.29	18.66	13.65	13.88	17.50	12.03	15.65	12.52	14.91	14.06	13.78	17.40	12.35	11.60	15.14	15.57	19.45

Table F.—For Whole District.

Year.	Popula- tion estima- ted to Middle of each Year.	Births.		Total Deaths Registered in the District.				Total Deaths in Public Insti- tutions in the Dist- rict.	Deaths of Non- residents regist'd in Public Insti- tutions in District.	Deaths of Resi- dents regist- ered in Public Insti- tutions bey'nd Dist'ct	Nett Deaths at all ages belonging to the District.	
		No.	Rate *	Under 1 Year of Age.		At all Ages.					No.	Rate *
				No.	Rate per 1,000 Births regist'd.	No.	Rate *					
1.	2.	3.	4.	5.	6.	7.	8.	9.	10.	11.	12.	13.
1895	5,750	195	33.91	18	92	90	15.65					
1896	5,750	161	28.00	23	142	72	12.52	...	...	...	...	...
1897	5,900	171	29.00	24	140	88	14.91	...	...	...	...	...
1898	5,900	144	24.40	18	125	83	14.06	...	...	...	...	...
1899	5,950	184	30.92	24	130	82	13.78	...	...	...	...	...
1900	5,860	170	29.01	22	129	103	17.57	...	...	...	...	...
1901	5,341	176	32.95	22	125	66	12.35	...	...	...	...	...
1902	5,341	171	32.01	11	64	62	11.60	...	...	...	...	...
1903	5,290	172	32.57	22	127	78	14.74	...	...	...	...	...
1904	5,200	148	28.46	25	168	81	15.57	...	...	...	...	...
Averages for years 1895-1904	5,140	169.2	30.12	20.9	124.2	80.2	14.27					
1905	5,140	140	27.23	20	142.85	94	18.28	...	...	6	100	19.45

*—Rates in Columns 4, 8, and 13 calculated per 1,000 of estimated population.

NOTE.—The deaths to be included in Column 7 of this Table are the whole of those registered during the year as having actually occurred within the district or division. The deaths to be included in Column 12 are the number in Column 7, corrected by the subtraction of the number in Column 10 and the addition of the number in Column 11.

By the term "Non-Residents" is meant persons brought into the District on account of sickness or infirmity, and dying in public institutions there; and by the term "Residents" is meant persons who have been taken out of the district on account of sickness or infirmity, and have died in public institutions elsewhere.

The "Public Institutions" to be taken into account for the purposes of these Tables are those in which persons are habitually received on account of sickness or infirmity, such as hospitals, workhouses, and lunatic asylums.

Institutions outside the district receiving sick and infirm persons from the district; Whitehaven Union Workhouse, Whitehaven Infirmary, Garlands Lunatic Asylum, Carlisle; also Galemire Fever or Infectious Disease Hospital, near Cleator Moor.

Area of District in Acres (exclusive of area covered by water)	...	5,556.340
Total Population at all ages, at Census of 1901	...	5,341
Number of Inhabited Houses	...	1,060
Average number of persons per house	...	5

Table VI.

Year.	Population estimated to middle of each year.	Births registered	Deaths at all ages	Deaths under One Year.
1895 ..	5,750	195	90	18
1896 ...	5,750	161	72	23
1897 ...	5,900	171	88	24
1898 ...	5,900	144	83	18
1899 ...	5,950	184	82	24
1900 ...	5,860	170	103	22
1901 ...	5,341	176	66	22
1902 ...	5,341	171	62	11
1903 ...	5,290	172	78	22
1904 ...	5,200	148	81	25
Averages of Years 1895 to 1904 ...	5,628·2	169·2	80·5	20·9
1905 ...	5,140	140	100	19

Table VII.—Cases of Infectious Disease notified during the Year 1905.

Notifiable Diseases.	Cases notified in Whole District.						
	At all Ages.	At Ages.—Years.					
		Under 1	1 to 5	5 to 15	15 to 25	25 to 65	65 and upwards
Smallpox ...	...	...	...	...	...	...	...
Cholera ...	...	...	...	...	...	...	...
Diphtheria ...	...	...	...	...	...	...	...
Membranous Croup	...	...	...	...	...	...	...
Erysipelas ...	9	...	2	...	2	5	...
Scarlet Fever ...	11	1	4	6	...	...	...
Typhus Fever ...	...	...	...	...	...	...	...
Enteric Fever ...	1	...	...	...	...	1	...
Relapsing Fever ...	...	...	...	...	...	...	...
Continued Fever ...	...	...	...	...	...	...	...
Puerperal Fever ...	...	...	...	...	...	...	...
Plague ...	...	...	...	...	...	...	...
Totals ...	21	1	6	6	2	6	...

Four cases were removed to the Hospital; 2 of Scarlet Fever and 2 of Erysipelas. The Notification of Infectious Disease is compulsory in the District, and has been since May, 1890; Galemire Joint Fever Hospital, situated in the Whitehaven Union Rural Council's District, near Cleator Moor.

Table VIII.—Causes of and Ages at Death during Year 1905.

Causes of Death.	Deaths in whole District at subjoined Ages.							Deaths in Public Institutions
	All Ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards	
Smallpox ...								
Measles ...	9	1	5	3				
Scarlet Fever ...								
Whooping-cough ...								
Diphtheria & Membranous Croup ...								
Croup ...								
Fever { Typhus ...								
{ Enteric ...								
{ Other continued ...								
Epidemic Influenza ...								
Cholera ...								
Plague ...								
Diarrhoea ...	2	1	1					
Enteritis ...	2	1		1				
Puerperal Fever ...								
Erysipelas ...								
Other Septic Diseases ...								
Phthisis ...	6	1				5		
Other Tubercular Diseases ...	6	1	2	2		1		1
Cancer, Malignant Disease ...	5					3	2	
Bronchitis ...	7	1	2			2	2	1
Pneumonia ...	2		1	1				
Pleurisy ...								
Other Diseases of Respiratory Organs ...								
Alcoholism ...								
Cirrhosis of Liver ...								
Veneral Diseases ...								
Premature Birth ...	5	5						
Diseases and Accidents of Parturition ...								
Heart Diseases ...	13					12	1	1
Accidents ...	1			1				
Suicides ...								
All other causes ...	42	8	2	2	4	5	21	3
All causes ...	100	19	13	10	4	28	26	6

*Table IX.—Infantile Mortality during the Year 1905.
Deaths from stated Causes in Weeks and Months
under One Year of Age.*

Cause of Death.		Under 1 Week	1-2 Weeks	2-3 Weeks	3-4 Weeks	Total under 1 Month	1-2 Months	2-3 Months	3-4 Months	4-5 Months	5-6 Months	6-7 Months	7-8 Months	8-9 Months	9-10 Months	10-11 Months	11-12 Months	Total Deaths under One Year
Common Infectious Diseases	Small-pox ...																	
	Chicken-pox ...																	
	Measles ...												1					1
	Scarlet Fever ...																	
	Diphtheria : Croup																	
Diarrhoeal Diseases	Whooping Cough																	
	Diarrhoea, all forms				1	1												1
	Enteritis (<i>not Tuberculous</i>)									1								1
	Gastritis Gastro-intestinal catarrh																	
Wasting Diseases	Premature Birth ...	5				5												5
	Congenital Defects																	
	Injury at Birth ...																	
	Want of Breast-milk																	
Tuberculous Diseases	Atrophy, Debility, Marasmus		2			2	1	1	1				2					5
	Tuberculous Meningitis ...																	
	Tuberculous Peritonitis : Tabes Mesenterica																	
	Other Tuberculous Diseases ...									1						1		2
	Erysipelas ...																	
	Syphilis ...																	1
	Rickets ...						1											
	Meningitis (<i>not Tuberculous</i>)																	
	Convulsions ...												1		1			2
	Bronchitis ...															1		1
	Laryngitis ...																	
	Pneumonia ...																	
	Suffocation, overlaying																	
	Other causes ...																	
		5	2	1	1	8	2	1	1	2		1	1		1	1	1	19

Births in the year : legitimate 134 ; illegitimate 6. Population estimated to middle of 1905, 5,140. Deaths from all causes at all ages, 120